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1993

**WASTE WATER
DISCHARGES REPORT**

MARCH 1995



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WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Central Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
1	Corbett Creek WPCP	Whitby (York-Durham)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the Certificate of Approval monthly limit for total phosphorus on one occasion. • Caused by equipment breakdown which has been repaired or replaced where necessary.
2*	Petro Canada Products - Oakville Refinery	Oakville (Oakville)	Petroleum Refining Effluent	<ul style="list-style-type: none"> • Exceeded the Certificate of Approval limit for total suspended solids on seven occasions in the Process Effluent Outfall (Control Point 0100). • Due to storm events causing treatment capacity to be exceeded. • To reduce the impact of stormwater the company is diverting stormwater from the property and upgrading the wastewater treatment plant.
3*	Pickering NGS-A	Pickering (York-Durham)	Electric Power Generation Effluent	<ul style="list-style-type: none"> • Exceeded the Certificate of Approval limit for temperature rise 16 times from the Condenser Cooling Water (CCW) Units 1 and 2 (Control Point 2100). • An Occurrence Report has been filed with the Investigations and Enforcement Branch.
4*	Pickering NGS-B	Pickering (York-Durham)	Electric Power Generation Effluent	<ul style="list-style-type: none"> • Exceeded the Certificate of Approval limit for temperature rise mean on 14 dates and temperature effluent mean on 17 dates from the Final Outfall (Control Point 3200).

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5	Stouffville WPCP	Whitchurch- Stouffville (York-Durham)	Municipal Effluent	<ul style="list-style-type: none">Exceeded the Certificate of Approval limits for the concentration and loadings of ammonia on five occasions.Due to poor sludge storage and handling.The Operating authority will be contracting a consultant in 1994 to address the sludge handling.

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1*	Corbett Creek WPCP	Whitby (York-Durham)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the monthly guideline for total phosphorus on one occasion. • Caused by equipment breakdown which has been repaired or replaced where necessary.
2	Lakeview TGS	Mississauga (Oakville)	Electrical Power Generating Effluent	<ul style="list-style-type: none"> • Exceeded the guidelines for total suspended solids (RSP), once during 1993 from Final Outfall (Control Point 0100). • Exceeded the guidelines for total suspended solids, on two occasions in 1993 in the Ash Transport System (Control Point 0200).
3	Norwood WPCP	Norwood	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the guideline for monthly average total phosphorus on two occasions. • Oxidation ditch rotor repaired and a portable aerator is now on standby. • Dry alum feeder was repaired and conversion to liquid alum is being investigated.
5	Pickering NGS-A	Pickering (York-Durham)	Electric Power Generation Effluent	<ul style="list-style-type: none"> • Exceeded the Certificate of Approval objective for total residual chlorine 45 times in Reactor Building Service Water (Control Point 2300). • Exceeded the guideline for monthly average temperature rise on 9 occasions. • Exceeded the guideline for monthly average total residual chlorine on 6 occasions.

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6	Pickering NGS-B	Pickering (York-Durham)	Electric Power Generation Effluent	Exceeded the Certificate of Approval objective for total residual chlorine (0.5 mg/L) 64 times and the "Environmental Codes of Practice for Steam Electric Power Generation - Design Phase" guideline (0.2 mg/L) on 7 occasions on a monthly average basis in Reactor Building Service Water (Control Point 2400).

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
1*	Ault Foods Limited	Winchester (Cornwall)	Food Processing Effluent	<ul style="list-style-type: none">Exceeded the Certificate of Approval annual loading limits for biochemical oxygen demand and suspended solids.The company was issued a Certificate of Approval in June of 1993 for upgrades to it's wastewater treatment system.The upgrades have been undertaken and effluent quality compliance is anticipated.
2*	Belleville Water Pollution Control Plant	Belleville (Kingston)	Municipal Effluent	<ul style="list-style-type: none">Exceeded Certificate of Approval monthly limit for total phosphorous once during the reporting period.An engineering study to determine the facility's hydraulic capacity necessitated the temporary removal of a secondary clarifier from service in order to "stress test" the plant. This stress testing to determine the treatment plant's limitations resulted in the phosphorous non-compliance event.Phosphorous values returned to compliance after the stress test was completed.

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993	
3*	Domtar Inc., Remediation Group (formerly Wood Preserving Division)	Trenton (Kingston)	Wood Preserving Effluent	<ul style="list-style-type: none"> Exceeded Certificate of Approval monthly limits at the "North" outfall for suspended solids on two occasions and pentachlorophenol on six occasions. Exceeded Certificate of Approval monthly limits at the "Far North" outfall for phenols on two occasions, suspended solids on eleven occasions, solvent extractables (oil and grease) on eleven occasions, and pentachlorophenol twelve times during the reporting period. The company submitted a remedial action workplan to the MOEE in January 1992; implementation is progressing. 	
4*	GE Plastics Canada Ltd.	Cobourg (Peterborough)	Organic Chemical Effluent	<ul style="list-style-type: none"> Exceeded Certificate of Approval limits for biochemical oxygen demand (rolling twelve month avg.) on two occasions from the Combined Effluent Outfall (Control Point 0100). These exceedances were a result of the averaging of very high values in 1992 which were due to a combination of a shock organic loading of vent oil and lower winter operating temperatures for the biological processes in the wastewater treatment plant. Remedial action consisted of: WWTP operation adjustments; cleaning of lines and associated mechanisms; and a new seal water decant tank. 	

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
5*	Haley Industries Limited	Halcy Station (Ottawa)	Metal Casting Effluent	<ul style="list-style-type: none"> Exceeded Certificate of Approval monthly limits for pH, silver, aluminum, biochemical oxygen demand, chromium, copper, iron, fluoride, nickel, ammonia, lead, dissolved solids, suspended solids, sulphite, sulphate, and zinc each twelve times; phenols eleven times; solvent extractables five times; and temperature rise three times during the reporting period. A Certificate of Approval was issued for an upgraded wastewater treatment system in 1994. Compliance is anticipated.
6	Lancaster Twp. (Green Valley) Waste Stabilization Pond	Lancaster Township (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> Exceeded Certificate of Approval biochemical oxygen demand, suspended solids, and total phosphorous loading limits during the month of May. Heavy ice cover necessitated the discharge of treated pond contents over a shortened discharge period. This resulted in effluent loading exceedances even though the parameter concentrations complied with those stipulated in the Certificate of Approval.
7*	Maxville Waste Stabilization Pond	Maxville (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> Exceeded Certificate of Approval dictated maximum discharge duration and maximum discharge rate conditions. The discharge duration and discharge rate conditions in the Certificate of Approval are under review by the MOEE.

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No.	Name of Plant	Location (MOE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
8*	Sonoco Limited	Glen Miller (Kingston)	Pulp and Paper Effluent	<ul style="list-style-type: none">Exceeded Certificate of Approval monthly limit for suspended solids on twelve occasions in 1993.The company will be upgrading its wastewater treatment works in order to comply with the Clean Water Regulation for the pulp and paper industry (Ontario Regulation 760/93).
9*	Wendover Water Pollution Control Plant	North Plantagenet Township (Cornwall)	Municipal Effluent	<ul style="list-style-type: none">Exceeded Certificate of Approval daily limit for biochemical oxygen demand once and suspended solids three times during the reporting period.The operating authority has reported that denitrification in the secondary clarifiers may be the cause for suspended solids carry over to the effluent.Sludge level monitoring equipment will be purchased to more closely scrutinize solids accumulations in the clarifiers.

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993	
1	Amherstview Waste Stabilization Pond	Ernestown Township (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guideline for suspended solids. • Algae contributed to the elevated suspended solids concentration in the effluent. Ernestown Township is continuing to address the adequacy of the existing treatment works with input from the MOEE. 	
2*	Arnprior Water Pollution Control Plant	Arnprior (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guidelines for suspended solids and biochemical oxygen demand. • Funding continues to be sought to upgrade the existing primary treatment facility to provide secondary treatment. 	
3*	Cameco	Port Granby (Peterborough)	Mining Waste Disposal Effluent	<ul style="list-style-type: none"> • Exceeded the guidelines for monthly average arsenic concentrations on eleven occasions during the reporting period. • This site is scheduled for decommissioning when a Federal Government Task Force identifies a new site for receiving waste. 	

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4*	Carleton Place Water Pollution Control Plant	Carleton Place (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guidelines for suspended solids and biochemical oxygen demand. Failed to meet the monthly guideline for total phosphorous three times in 1993. • The upgraded plant came on-line in October of 1993. • Biochemical oxygen demand, suspended solids, and total phosphorous compliance with the upgraded facility's Certificate of Approval was achieved in October, November, and December of 1993. • Compliance with Certificate of Approval requirements is anticipated.
5	Chalk River Nuclear Laboratories (Atomic Energy Canada Limited)	Chalk River (Ottawa)	Nuclear Research Facility Effluent	<ul style="list-style-type: none"> • Exceeded the monthly pH objective five times and the annual suspended solids objective at the process effluent monitoring station (0500). • Exceeded the monthly pH objectives seven times at the batch discharge monitoring station (0101). • AECL is currently studying wastewater treatment/neutralization options.
6	Cobourg WPCP #1	Cobourg (Peterborough)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the guideline for monthly average total phosphorous on one occasion. • Regular in-plant testing of ferrous chloride chemicals being delivered to plant has been initiated to ensure quality control of process chemicals.

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
7*	Cornwall Chemicals Limited	Cornwall (Cornwall)	Organic Chemical Effluent	<ul style="list-style-type: none"> • Exceeded the annual objectives for biochemical oxygen demand and suspended solids. • In anticipation of a Clean Water Regulation for this sector, the company is evaluating treatment technologies needed to deliver the required effluent quality.
8*	Dontar Inc., Containerboard Division	Trenton (Kingston)	Pulp and Paper Effluent	<ul style="list-style-type: none"> • Exceeded the annual objectives for biochemical oxygen demand and suspended solids. The monthly objective for total phosphorous was exceeded during all twelve months in 1993. • The company has received MOEE approval to construct an evaporative technology based treatment system.
9	E.B. Eddy Forest Products Limited	Ottawa (Ottawa)	Pulp and Paper Effluent	<ul style="list-style-type: none"> • Exceeded the annual objective for biochemical oxygen demand. • The company is evaluating options to upgrade treatment facilities at the mill site or to convey process wastewater to it's Hull, Quebec site for treatment.

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10*	Essroc Canada Inc.	Pictor (Kingston)	Industrial Minerals Effluent	<ul style="list-style-type: none"> • Exceeded the annual objective for suspended solids at the plant effluent and south quarry discharge monitoring stations. • In 1992, the company retained the services of an engineering consulting firm to investigate the feasibility of establishing a closed loop, totally recirculated wastewater management system. • The company has budgeted funds for the completion of the recirculation system over the period from 1994 through 1996.
11	Frankford Water Pollution Control Plant	Frankford (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the monthly guideline for total phosphorous in February 1993. • Total phosphorous concentrations will continue to be monitored by the operating authority.
12	Hawkesbury Water Pollution Control Plant	Hawkesbury (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the monthly guideline for total phosphorous in February 1993. • The operating authority cites high maximum day flows associated with combined sewers as causing performance problems at the treatment plant. • The Town of Hawkesbury has been separating it's sewer network. The cost of the project necessitates its span over several years.

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
13*	ICI Canada Inc., Consolidated Packaging Operation (formerly Stanchem)	Cornwall (Cornwall)	Inorganic Chemical Effluent	<ul style="list-style-type: none"> • Exceeded the annual objectives for biochemical oxygen demand and suspended solids. Exceeded monthly guideline for phosphorous three times. • The company is continuing to assess the diversion of effluent into the municipal sewage collection system operated by the City of Cornwall.
14*	ICI Canada Inc., ICI Forest Products	Cornwall (Cornwall)	Inorganic Chemical Effluent	<ul style="list-style-type: none"> • Exceeded the annual objective for suspended solids. • Upgrades to the wastewater treatment system will likely be required in order to comply with Clean Water regulations.
15	Ingleide Water Pollution Control Plant	Osnabruck Township (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guideline for suspended solids. • The existing primary treatment plant is to be upgraded to a secondary treatment facility. The upgrades are likely to be undertaken by 1996.
16*	Iroquois Water Pollution Control Plant	Iroquois (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guidelines for suspended solids and biochemical oxygen demand. • The operating authority has committed itself to undertaking an enhanced sampling program. The monitoring program is to be used to suggest remedial measures to correct non-compliance issues at this primary treatment plant.

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17	Kempville Water Pollution Control Plant	Kempville (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> Exceeded the annual guideline for suspended solids and exceeded the monthly guideline for total phosphorous five times. In October of 1993 a tertiary treatment facility replaced the former primary plant. In November and December of 1993 the effluent quality complied with the Certificate of Approval limits. Continued compliance is anticipated.
18	Kraft General Foods Canada Inc.	Osnabruck Township (Cornwall)	Food Processing Effluent	<ul style="list-style-type: none"> Exceeded monthly total phosphorous objective eleven times. The company, upon the upgrading of the Ingleside Water Pollution Control Plant, will be directing it's process wastewater to the municipal sewage works. The Ingleside WPCP upgrades are likely to be undertaken by 1996.
19	Kingston Township Water Pollution Control Plant	Kingston Township (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> Exceeded the total phosphorous guideline in April 1993. A plant expansion is planned to commence in the fall of 1994. Improved phosphorous removal expected in 1995.

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
20	Kingston (City) Water Pollution Control Plant	City of Kingston (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guideline for suspended solids. • Failed to conform with the total phosphorous guideline in July 1993. • The plant is currently being upgraded to provide secondary equivalent treatment. • Improved effluent quality expected in 1995.
21*	Morrisburg Water Pollution Control Plant	Morrisburg (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guideline for suspended solids. • The operating authority cites that insufficient hydraulic capacity was responsible for this facility's exceedance. • Financial assistance is being sought to initiate an Environmental Study Report. The ESR must be completed before work can commence on upgrading the treatment works.
22	Nutrite Inc. (Formerly Nitrochem Inc.)	Mailand (Kingston)	Inorganic Chemical Effluent	<ul style="list-style-type: none"> • Exceeded the annual objective for suspended solids and the monthly objective for ammonia. • The company's Spills Prevention Strategy is scheduled to be fully implemented in 1995. • Upgrades to the wastewater treatment system are anticipated to provide compliance with the upcoming Clean Water regulation limits.
23	Odessa Water Pollution Control Plant	Ernestown Township (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the monthly guideline for total phosphorous on two occasions. • The operating authority will continue to monitor phosphorous levels in the plant effluent.

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24	Peterborough WPCP	Peterborough (Peterborough)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the guideline for monthly average total phosphorous on four occasions. • Major plant upgrading is in construction stage.
25	Russell Waste Stabilization Pond	Russell (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guideline for suspended solids. • The operating authority plans to apply aluminum sulphate in order to improve suspended solids removal during the 1994 autumn discharge. Monitoring frequency will also be increased during discharge periods.
26	Smiths Falls Water Pollution Control Plant	Smiths Falls (Ottawa)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guideline for suspended solids and the monthly guideline for total phosphorous. • Upgrades to the treatment plant were completed late in 1993. • Improved performance expected in 1994.
27*	Sonoco Limited	Glen Miller (Kingston)	Pulp and Paper Effluent	<ul style="list-style-type: none"> • Exceeded biological oxygen demand objective. • The company will be upgrading it's wastewater treatment works in order to comply with the Clean Water Regulation for the pulp and paper industry (Ontario Regulation 760/93).
28	St. Isidore Waste Stabilization Pond	St. Isidore (Cornwall)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual guideline for suspended solids. • The operating authority has increased monitoring frequency during discharge periods and has adjusted the dosage rate of applied aluminum sulphate.

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29	Stratton Paper Company (a Division of Roman Corp. Ltd.)	Camden East (Kingston)	Pulp and Paper Effluent	<ul style="list-style-type: none"> • Exceeded the annual objective for suspended solids and the monthly objective for total phosphorous. • The company is evaluating options to upgrade treatment facilities at the mill in order to meet the Clean Water Regulation for the pulp and paper sector (Ontario Regulation 760/93).
30	Westport Waste Stabilization Pond	Westport (Kingston)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual suspended solids guideline. • Operational changes were made in mid-1993 to reduce suspended solids discharge. • The fall 1993 discharge met the suspended solids guideline.

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1*	Applied Carbon Technology	Kearney (North Bay)	Mining Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval four week rolling average limit for iron three times during reporting period. • Abatement is monitoring water quality. 	
2	Cardiff Lagoon	Cardiff Township (Muskokas-Haliburton)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for biochemical oxygen demand twice, suspended solids twice, and total phosphorous once in the reporting period. • New plant being designed. 	
3*	Falconbridge Ltd. Lindsley Mine	Sudbury (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval monthly limit for zinc twice, total metals twice and each of cadmium and nickel once. • Minewater now being trucked to a separate treatment facility. 	
4	Falconbridge Ltd. Moose Lake (Strathcona Mine)	Onaping Falls (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval monthly limit for biochemical oxygen demand once. • Likely due to low biological activity caused by cold temperatures and ice cover. 	
5*	Falconbridge Ltd. NIR Road	Falconbridge (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval four week rolling average limit for iron four times during the reporting period. • Company is investigating the cause. 	

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6	Fox Street Sewage Treatment Plant	Penetanguishene (Barrie)	Municipal Effluent	<ul style="list-style-type: none"> • Certificate of Approval total phosphorous limit is exceeded if 3 consecutive months exceed 0.3 mg/L. Every month in 1993 exceeded 0.3 mg/L, except July. Tertiary treatment being constructed at this facility is expected to bring the plant into compliance.
7	Haliburton Sewage Treatment Plant	Dysart, et al., (Muskoka-Haliburton)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for biochemical oxygen demand twice. • The existing plant is being refurbished and expanded.
8*	INCO - Copper Cliff Creek Wastewater Treatment Plant	Copper Cliff (Sudbury)	Nickel Mining Milling Smelting Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for pH once. • Abatement staff meet regularly with Company staff to ensure continued improvement towards compliance.
9*	INCO - Nolin Creek Wastewater Treatment Plant	Sudbury (Sudbury)	Nickel Mining Property Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval monthly average limits for iron, four times and nickel three times. • The Company has initiated work upstream of the plant to control flows which should reduce bypasses and exceedances.
10	INCO - Whistle Mine	Sudbury (Sudbury)	Mining Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for cadmium for two months and pH five times during the reporting period. • The cadmium levels appear to be naturally occurring.

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11*	MacMillan-Bloedel	Sturgeon Falls (North Bay)	Pulp and Paper Effluent	<ul style="list-style-type: none">Exceeded limits for total suspended solids - daily average concentration - 57 times and daily loading - 5 times.Exceedances were associated with the startup of a new process.Plant returned to compliance by the end of the reporting period.
12	Stayner Sewage Treatment Plant	Stayner (Barrie)	Municipal Effluent	<ul style="list-style-type: none">Exceeded Certificate of Approval limit for ammonia once.Lab equipment has been purchased by the operating authority to closely monitor ammonia levels to ensure limits are not exceeded again.
13	Thorne Local Services Board	Thorne (North Bay)	Municipal Effluent	<ul style="list-style-type: none">Exceeded Certificate of Approval annual limit for biochemical oxygen demand and suspended solids.OCWA retained to determine extent of problem and provide recommendations.
14	Verner Lagoon	Verner (North Bay)	Municipal Effluent	<ul style="list-style-type: none">Exceeded Certificate of Approval annual average for biochemical oxygen demand.Currently going through Environmental Study Report.

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1*	Bala Water Pollution Control Plant	Township of Muskoka Lake (Muskoka-Haliburton)	Municipal Effluent	<p>Effluent consistently exceeds suspended solids guidelines due to inadequate settling of lime which is added for phosphorus removal.</p> <p>A new treatment plant is under construction. Existing plant expected to be off-line in 1995.</p>
2	Espanola Sewage Treatment Plant	Township of Espanola	Municipal Effluent	<p>Exceeded effluent criteria for primary plants now plant currently under construction and is scheduled for completion in 1995</p>
3	Falconbridge Ltd. Lockerby Mine	Town of Walden (Sudbury)	Mining Effluent	<p>Exceeded guidelines for suspended solids once.</p> <p>Probable cause was leaf litter in sample.</p> <p>Plant returned to compliance next month.</p>
4*	INCO - Crean Hill Mine	Sudbury (Sudbury)	Mining Effluent	<p>Exceeded guidelines for pH six times during the reporting period.</p> <p>MISA Regulation will move Company towards compliance.</p>
5*	INCO - Garson Mine	Garson (Sudbury)	Mining Effluent	<p>Exceeded guidelines for nickel five times, pH twice, total suspended solids once during the reporting period.</p> <p>MISA Regulation will move Company towards compliance.</p>
6*	INCO - Levack Mine	Levack (Sudbury)	Mining Effluent	<p>Exceeded guidelines for nickel twelve times, pH ten times, iron four times, suspended solids seventeen times.</p> <p>The Company has initiated work to upgrade this facility in 1994.</p>

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No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993	
7*	INCO - Nickel Refinery	Copper Cliff (Sudbury)	Nickel Refinery Effluent	• Exceeded guidelines for nickel twice, pH twice, and copper five times during the reporting period. • MISA Regulation will move Company towards compliance.	

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region					
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993	
1*	ADM/Ogilvie Mills Ltd.	Thunder Bay (Thunder Bay)	Food Processing Effluent	<ul style="list-style-type: none"> • Biochemical oxygen demand exceeded the Control Order thirty day average limit for thirteen days in May 1993. The company was given approval to discharge to the City of Thunder Bay sanitary sewer last year, however, this resulted in operational problems at the sewage treatment plant and this practise had to be discontinued. The company is investigating treatment alternatives. Company was in compliance for the remainder of the year. 	
2*	American Barrick Resources Corp.	Holloway Twp., Cochrane District (Timmins)	Sewage Package Plant Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limits for suspended solids on ten occasions, total phosphorus on five occasions, biochemical oxygen demand on two occasions, and ammonia on one occasion. Cause was identified as operational and maintenance inadequacies. Maintenance and operational procedures developed to address inadequacies. 	
3*	Canadian Pacific Forest Products Ltd. (now Aenor Inc.)	Thunder Bay (Thunder Bay)	Pulp and Paper Effluent	<ul style="list-style-type: none"> • Suspended solids daily Control Order limit was exceeded five times throughout the year due to unrelated operational problems in the secondary clarifier. Isolated incidents were corrected immediately by the company. Company was in compliance for the remainder of the year. 	

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
4*	Deak Resources Corporation	Virginiatown (Timmins)	Gold Mine and Mill Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval monthly arithmetic mean for total cumulative heavy metals on three occasions, total copper on six occasions, total nickel on one occasion, total arsenic, and total cyanide on three occasions each. • In January of 1993, the Certificate of Approval was revised for the installation of an arsenic treatment system. • The company is currently under investigation for failing to meet final effluent parameters established in the Certificate of Approval for 1993.
5*	Domtar Packaging Inc.	Red Rock (Thunder Bay)	Pulp and Paper Effluent	<ul style="list-style-type: none"> • Suspended solids daily and monthly Control Order limits were exceeded on three occasions. • Two exceedances were the result of solids entering the outfall from runoff due to a severe rain storm. Problems with the brownstock washers resulted in the third exceedance. • Company has downsized its operations and stabilized its new product lines. • Company was in compliance for the remainder of 1993.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
6*	James River Marathon Ltd.	Marathon (Thunder Bay)	Pulp and Paper Effluent	<ul style="list-style-type: none"> • Exceeded Control Order Limit for biochemical oxygen demand on thirty occasions and suspended solids on one occasion. • A minor process change and a modest production cut has brought the company back into compliance. • Company was in compliance for the remainder of 1993.
7*	Jogues Lagoon	Jogues LSB (Timmmins)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the Certificate of Approval limit for suspended solids and phosphorus during one discharge period. • Back-up of receiving stream into emergency by-pass chamber resulted in hydraulic overloading of the lagoon in the spring. • Operating authority will seek approval to modify overflow system to prevent stream back-up.
8*	Kirkland Lake Power	Kirkland Lake (Timmmins)	Electric Power Generation Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limits for pH on 15 occasions, and the natural ambient water temperature limit of 10°C on one occasion. • The company upgraded the sewage works in October of 1993, and is expected to be in compliance in 1994.
9	Mattice Lagoon	Mattice-Yal Côté (Timmmins)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the Certificate of Approval limit for phosphorus during the discharge in June 1993. • Operating authority will request an amendment to the Certificate of Approval to remove the phosphorus limit since this lagoon discharges to the Arctic watershed.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
10*	Muscocho Explorations Ltd. Megino Mine	Wawa (Sault Ste. Marie)	Mining Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for iron in October. • The mine no longer operates. • MOEE continues to work with MNDM and the Company on the mine closure plan.
11*	Muscocho Explorations Ltd. Magnacon Mine	Dubreuilville (Sault Ste. Marie)	Mining Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval four week rolling average five times (two for iron, two for copper, one for total suspended solids) and four times for pH. • The mine no longer operates. • MOEE continues to work with MNDM and the Company on the mine closure plan.
12*	Royal Oak Mines Schumacher Site	Timmins (Timmins)	Gold Mine and Mill Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval monthly average limit for suspended solids on one occasion • Mill shut down operations in 1989, but continues to discharge stormwater • No closure plan.
13	Spruce Falls	Kapuskasing (Timmins)	Pulp and Paper Mill Effluent	<ul style="list-style-type: none"> • Exceeded the Control Order daily limit for suspended solids to the Kapuskasing River on one occasion in 1993. • The company remained in compliance with the thirty day rolling average for suspended solids in 1993.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Northern Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
14	St. Andrew Goldfields Ltd. - Hislop Twp. Site	Black River-Matheson (Timmins)	Gold Mine Effluent	<ul style="list-style-type: none"> Exceeded Certificate of Approval monthly average limits for total suspended solids and iron on one occasion each. The company attributes the elevated levels to previous mining activities in the open pit, which has been converted to a settling pond. No future exceedences are expected.
15*	St. Andrew Goldfields Ltd. - Stock Twp. Site	Black River-Matheson (Timmins)	Gold Mine and Mill Effluent	<ul style="list-style-type: none"> Exceeded Certificate of Approval four-week rolling average limit for total suspended solids on eight occasions. The company believes that algae in the polishing pond are the cause of the elevated suspended solids. The company is examining ways to decrease nutrient loading to the pond.
16	Township of Val Rita-Harty	Harty (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> Exceeded the Certificate of Approval limit for phosphorus by 0.1 mg/L on one occasion. Municipality to monitor levels of phosphorus prior to discharge; advised to treat the lagoon if levels are above the limit.
17	Township of Black River-Matheson	Holyte (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> Exceeded the Certificate of Approval limits during the May 1993 discharge period for suspended solids and total phosphorus. Limits were not exceeded during fall discharge.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Northern Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
1*	ADM/Ogilvie Mills Ltd.	Thunder Bay (Thunder Bay)	Food Processing Effluent	<ul style="list-style-type: none"> ● Total suspended solids guideline was exceeded each month throughout the year. ● The company was given approval to discharge to the City of Thunder Bay sanitary sewer last year, however, this resulted in operational problems at the sewage treatment plant and this practise had to be discontinued. ● The company is investigating treatment alternatives.
2	Algoma Ore Division	Michipicoten - Wawa (Sault Ste. Marie)	Mining Effluent	<ul style="list-style-type: none"> ● Exceeded Guidelines for total suspended solids twice and manganese ten times. ● A draft closure plan was reviewed in October.
3*	City of Timmins, Bob's Lake Lagoon	Timmins (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> ● Exceeded the annual biochemical oxygen demand guideline. ● Municipality is planning for a new pumping station which will direct flows to the Whitney-Tisdale sewage treatment plant.
4*	Canadian Pacific Forest Products Ltd. (now Aenor Inc.)	Thunder Bay (Thunder Bay)	Pulp and Paper Effluent	<ul style="list-style-type: none"> ● Phosphorus guideline was exceeded two times during the reporting period. ● Company will continue in its attempt to optimize the efficiency of the secondary treatment plant while reducing phosphorus addition. ● Company is expected to be in compliance in 1994.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Northern Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
5	Falconbridge Gold Corporation - Bell Creek Mine	South Porcupine (Timmins)	Gold Mine Effluent	<ul style="list-style-type: none"> • Exceeded the guidelines for cyanide and metals concentrations during the month of May. This resulted from an emergency discharge caused by spring run-off. • A Certificate of Approval amendment presently being processed will provide for increased tailings capacity and a 100% recirculation practice. It is expected that these changes will prevent future occurrences.
6	Fort Frances W/PCP	Fort Frances (Kenora)	Municipal Effluent	<ul style="list-style-type: none"> • The primary sewage treatment plant did not meet the annual average removal efficiency guideline for biochemical oxygen demand and suspended solids. • The municipality has completed an Environmental Study Report for plant upgrading. • Application for funding has been resubmitted to OCWA for approval.
7*	Iroquois Falls WPCP	Iroquois Falls (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual biochemical oxygen demand guideline. • Due to incomplete aeration. Upgrading of the aeration section of the treatment plant will take place in 1994.
8*	Moosonee WPCP	Moosonee Development Area Board (Timmins)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded the annual biochemical oxygen demand and total suspended solids guidelines. • Operating authority will be constructing a new sewage works, with an anticipated completion date of fall 1995.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

Northern Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
9	Rio Algom - Quirke	Elliot Lake (Sault Ste. Marie)	Mining Effluent	• Exceeded guideline for total suspended solids in December. • Minor adjustment to plant operations rectified the situation.
10	Township of Armstrong, Earlon Lagoon	Earlon (Timmins)	Municipal Effluent	• Exceeded the annual biochemical oxygen demand and total suspended solids guideline limits. • Municipality has been requested to investigate the causes and possible remedies.
11	St. Andrew Goldfields Ltd. - Hislop Twp. Site	Black-River Matheson (Timmins)	Gold Mine Effluent	• Exceeded monthly objective for ammonia on one occasion. • The company modified housekeeping practices regarding the use of explosives, which is the source of ammonia.
12	Township of McGarry, Virginiatown and Kearns WPCP	Virginiatown (Timmins)	Municipal Effluent	• Failed to meet the annual percentage removal guideline for total suspended solids and exceeded monthly average phosphorus once. • Municipality is in the process of conducting an Environmental Study Report for a new treatment facility.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

South Western Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
1	Aylmer Lagoons	Aylmer (London)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for ammonia during the spring discharge. • Problems found with the aeration system are to be repaired. • No exceedances were noted for the fall discharge.
2	Dutton STP	Dutton (London)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for biochemical oxygen demand, suspended solids, ammonia, total phosphorus and E.Coli numerous times. • During startup of the new plant. • The operating authority is currently revising the treatment process to ensure compliance. • Approval to proceed with the modifications has been received.
3*	Ethyl Canada	Corunna (Sarnia)	Organic Chemical Mfg. Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limits for total residual chlorine and pH. • The main production facility, tetra-ethyl lead, was shut down March 31, 1994. • The company is attempting to resolve their exceedances to ensure compliance.
4	Horizon Poultry	St Marys (London)	Food Processing Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for suspended solids. • Due to operational problems. • The company has resolved the problem and a reoccurrence is unlikely.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Non-Compliance With Control Order and Certificate of Approval Limits					South Western Region
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993	
5	ICI (Collected Stormwater Runoff)	Courttright (Sarnia)	Inorganic Chemical Mfg. Effluent	Exceeded Certificate of Approval limits twice for Phosphorus and once for the unionized ammonia. ICI ceased the discharges of stormwater, as required by the C of A, as soon as it was known that the limits had been exceeded.	• •
6	Lucan STP	Lucan (London)	Municipal Effluent	Exceeded Certificate of Approval monthly limit once each for ammonia and total phosphorus. Caused by startup problems and construction errors with the effluent filter which created operational problems. Modifications to the filter unit are expected to be completed by the middle of 1994.	• • •
7*	Ontario Hydro Bruce Nuclear Generating Station - B	Kincardine (Owen Sound)	Electric Power Effluent	Exceeded Certificate of Approval limits for total residual chlorine twice. Due to operational problems. Current procedures have been reviewed and a reoccurrence is not expected.	• • •
8	Ontario Hydro Bruce Nuclear Generating Station - A	Kincardine (Owen Sound)	Electric Power Effluent	Exceeded Certificate of Approval limits for total residual chlorine twice due to operational problems. Current procedures have been reviewed and a reoccurrence is not expected. Exceeded Certificate of Approval limit for ammonia during November due to high influent ammonia. Company is working to resolve the problem.	• • •

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

South Western Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
9	Rodney STP	Rodney (London)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for suspended solids, total phosphorus and E.Coli. • The operating authority is currently revising the treatment process to ensure compliance. • Approval to proceed with the modifications has been received.
10	Shell Canada Products Ltd.	Corruna (Sarnia)	Petroleum Products Mfg. Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limits from the stormwater discharge system once for volatile suspended solids. • Changes to the company stormwater management program has reduced the level of discharges and should eliminate future exceedances.
11	St Mary's STP	St Mary's (London)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded Certificate of Approval limit for monthly total phosphorus and E. Coli. • Industrial discharge created the problem and has been identified. • The industry has made process changes to their pretreatment system to ensure compliance with the municipal sewer use bylaw.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

South Western Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
12	Strathroy Lagoons	Strathroy (London)	Municipal Effluent	<p>Exceeded Certificate of Approval limit for biochemical oxygen demand and total phosphorus. Due to the high organic and suspended solids loading received by this facility. The municipality is attempting to enforce a sewer use bylaw and has met with MOEE to develop a plan to expand the facilities.</p> <p>•</p>
13	Tavistock Lagoons	Tavistock (London)	Municipal Effluent.	<p>Exceeded Certificate of Approval limit for suspended solids twice. Due to algae blooms. The operating authority is reviewing discharge procedures to prevent reoccurrences.</p> <p>•</p>
14	Valeo Engine Cooling	Stratford (London)	Metal Fabricating & Finishing Effluent	<p>Exceeded Certificate of Approval limit for pH. The company is working with the MOEE to resolve the process difficulty and ensure compliance.</p> <p>•</p>
15	Wallaceburg STP	Wallaceburg (Sarnia)	Municipal Effluent	<p>Exceeded Certificate of Approval limit for suspended solids during the 1st year of operation due to startup problems at this expanded facility. Operating procedures have been thoroughly reviewed and modifications made to prevent future occurrences.</p> <p>•</p>

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

South Western Region				
No.	Name of Plant	Location (MOE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
1*	Champlain Industries Ltd.	Tata (Owen Sound)	Food Processing Effluent	<ul style="list-style-type: none"> • Exceeded monthly average total suspended solids guideline for February. • The company is working with the municipality to divert their effluent to the municipal treatment facility.
2*	Comber Lagoon	Comber (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded annual suspended solids guidelines. • Caused by algae and windy conditions during the fall discharge.
3*	Cottam Lagoons	Cottam (Windsor)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded annual suspended solids guidelines and one monthly total phosphorus objective. • Preliminary sampling indicated batch dosing during the spring discharge was not required, then a large algae bloom occurred causing the excessive solids and phosphorus. • Operating procedures have been reviewed and revised to prevent a re-occurrence.
4*	Ford Motor Company Ltd.	Windsor (Windsor)	Metal Casting Effluent	<ul style="list-style-type: none"> • Exceeded phenol objectives every month during the reporting period. • Initial production changes implemented during 1993 were unsuccessful in reducing the phenolic loadings; further production and treatment changes outlined in an abatement plan filed with the MOE are underway. Reductions in phenolic are expected during 1994.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

South Western Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
5*	Gay Lea Foods Cooperative Ltd.	Teeswater (Owen Sound)	Food Processing Effluent	• Exceeded guidelines for monthly average total suspended solids, biochemical oxygen demand & ammonia nitrogen throughout the year. Exceeded monthly average total phosphorus guideline in December. The company has agreed to hire a consultant to assess its waste treatment systems.
6*	General Chemical Canada Ltd.	Amherstburg (Windsor)	Inorganic Chemical Mfg. Effluent	• Exceeded guidelines for monthly average total suspended solids & ammonia nitrogen four times in 1993 at the North Drain. A comprehensive study is currently underway to address the problems and ensure compliance with MOEE policies and guidelines.
7*	Merlin Lagoons	Raleigh-Tilbury East Twp. (Windsor)	Municipal Effluent	• Exceedance of monthly total phosphorus objective. • Result of problems with the spring batch chemical dosage for phosphorus control. • Operating procedures have been revised to prevent a re-occurrence.
8	Mitchell's Bay Lagoon	Dover Twp. (Windsor)	Municipal Effluent	• Exceedance of annual suspended solids guideline • A result of windy conditions, subsequent berm erosion and a carp infestation during spring discharge. • Berm repairs have been approved and operating procedures revised; and the use of a different coagulant to prevent a re-occurrence is being explored.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

South Western Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
9*	Oil Springs Lagoon	Oil Springs (Sarnia)	Municipal Effluent	<ul style="list-style-type: none"> • Exceedance of annual suspended solids guidelines. A result of an algae bloom and windy conditions during the discharge. • Operating procedures have been revised and the use of a different coagulant to prevent a re-occurrence is being explored.
10*	Omstead Foods Ltd.	Wheatley (Windsor)	Food Processing Effluent	<ul style="list-style-type: none"> • Exceeded guidelines for monthly average total suspended solids, biochemical oxygen demand & total phosphorus throughout the year. • The completion of extensive modifications to the treatment system and early startup problems delayed compliance until early 1994. • Compliance is anticipated in future.
11	Paisley STP	Paisley (Owen Sound)	Municipal Effluent	<ul style="list-style-type: none"> • Exceedance of monthly total phosphorus objective twice during the review period. • Resulted from an infestation of an unidentified fungus in the treatment works. • The fungus was controlled and all objectives and guidelines were met for the remainder of the year.
12	Parkhill Lagoon	McGillivray Twp. (London)	Municipal Effluent	<ul style="list-style-type: none"> • High suspended solids during the fall discharge caused a very minor exceedance of the annual suspended solids guideline.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

South Western Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
13*	Port Lambton Lagoons	Sombra Twp. (Sarnia)	Municipal Effluent	Exceedance of annual suspended solids guideline. A result of an algae bloom and windy conditions during the discharge. The installation of continuous chemical feed equipment was completed late in 1993 and operating procedures have been revised to prevent a re-occurrence.
14	Praxair Ltd.	Sarnia (Sarnia)	Inorganic Chemical Mfg. Effluent	Exceeded monthly average total suspended solids guideline for two months during the reporting period. Both exceedances were related to storm events.
15*	Sifto Canada Ltd.	Goderich (Owen Sound)	Salt Mining Effluent	Exceeded monthly average total suspended solids guideline for two months during the reporting period. Caused by equipment failure. Company has been required to provide a preventative maintenance schedule containing appropriate steps to prevent a future reoccurrence.
16*	Sombra Lagoon	Sombra Twp. (Sarnia)	Municipal Effluent	Exceedance of annual suspended solids guideline. A result of an algae bloom and windy conditions during the discharge. The installation of continuous chemical feed equipment was completed late in 1993 and operating procedures have been revised to prevent a re-occurrence.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

South Western Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
17*	Stoney Point P.V. Lagoon	Tilbury N. Twp. (Windsor)	Municipal Effluent	Exceedance of annual suspended solids guideline. A result of an algae bloom and windy conditions during the discharge. Operating procedures have been revised and the use of a different coagulant to prevent a re-occurrence is being explored.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
1*	American Standard, Div. of Wabco Standard Inc.	Cambridge (Cambridge)	Metal Fabrica- tion Plant Effluent	<ul style="list-style-type: none"> • Exceeded limits for suspended solids four times and, iron once. • Caused by bulking. • Company initiated shock chlorination as an interim measure to control bulking. Further controls are being implemented in 1994.
2	Arthur Lagoon	Arthur (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded limits for total suspended solids and total phosphorus during March. • Exceedences were attributed to the lagoon process. • Once the exceedences were identified, the discharge was stopped until the lagoon quality improved.
3	Biggar Lagoon	Grimsby (Welland)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded total suspended solids concentration limits twice. • Due to a high-strength effluent discharge from a food processing plant. • This problem has been eliminated with the closure of the food processing plant.
4	Crystal Beach WPCP	Crystal Beach (Welland)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded limits for biochemical oxygen demand concentration twice and total suspended solids concentration once. • Attributed to ongoing optimization studies being carried out at the plant. These studies will conclude in 1994.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

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Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
5*	Cyanamid Canada Inc.	Welland (Welland)	Inorganic Chemical Plant Effluent	Exceeded monthly total suspended solids limit four times. Attributed to stormwater runoff.
6	Dofasco Inc.	Hamilton (Hamilton)	Iron & Steel Effluent	Exceeded total residual chlorine concentration limit nine times during the reporting period. Due to operational control problems. Company has implemented new chlorination/de-chlorination procedures to address this problem.
7*	Dundas WPCP	Dundas (Hamilton)	Municipal Effluent	Exceeded total kjeldahl nitrogen limits as follows: monthly concentration limits three times and weekly loading once. Municipality and MOEE negotiating voluntary abatement plan to achieve compliance. These exceedences were attributed to mechanical failure of the clarifiers.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

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Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region

No.	Name of Plant	Location (MOE&E Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
8*	Geon Canada Inc. (formerly B.F. Goodrich)	Niagara Falls (Welland)	Organic Chemical Plant Effluent	<ul style="list-style-type: none"> Exceeded daily total suspended solids concentration limits 18 times & monthly concentration limits three times, daily biochemical oxygen demand limit five times & monthly concentration limits three times and pH limit twice. Due to difficulties with biological treatment process. Company has installed aeration to improve biological treatment.
9*	Horizon Poultry Products	Ayr (Cambridge)	Poultry Processing Plant Effluent	<ul style="list-style-type: none"> Exceeded limits for chlorine residual twice, phosphorus twice, total suspended solids twice, oil & grease twice, biochemical oxygen demand twice and faecal coliform five times. Due to bulking problems caused by filamentous bacteria. A Certificate of Approval has been issued for the installation of additional treatment to control the bulking problems. The installation should be completed in 1994.
10	Jarvis Lagoon	Jarvis (Hamilton)	Municipal Effluent	<ul style="list-style-type: none"> Exceeded total suspended solids concentration limit during the fall discharge. Attributed to excessive algae growth in the lagoons during the discharge period.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
11*	Kimberly-Clark	St. Catharines (Welland)	Pulp & Paper Plant Effluent	Exceeded sulphide limits three times. Company installed a new aeration system to improve treatment.
12*	Noranda Forest	Thorold (Welland)	Pulp & Paper Plant Effluent	Exceeded daily concentration limits for total suspended solids nine times, biochemical oxygen demand six times and total residual chlorine twice. The pH range was exceeded on 19 days. Company has been charged. First Court appearance scheduled for April, 1994.
13*	Ontario Hydro (Nanticoke TGS)	Nanticoke (Hamilton)	Thermal Generating Ash Lagoon Effluent	Exceeded the limit for total suspended solids eight times, pH eight times, alkalinity twice, zinc three times, copper two times, iron, nickel and mercury once in the Ash lagoon effluent. Due to the use of a wet ash transport system which has now been replaced by a dry ash transport system. An abatement program to remove floating ash from the ash lagoon over the next two years has been implemented. A report from a pH optimization study to evaluate heavy metal loadings is due in 1994. Exceeded the limit for total suspended solids in the sewage lagoon effluent twice. Attributed to a heavy algae bloom.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

West Central Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
14	Port Dalhousie WPCP	St. Catharines (Welland)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded limits for total suspended solids and total phosphorus concentration in September. • Due to plant expansion and modifications the primary clarifiers were out of service during this month.
15	Port Weller WPCP	Port Weller (Welland)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded total suspended solids concentration limit in December. • Attributed to a high-strength effluent discharge to the sewage collection system. • Operating authority is conducting an investigation into the possible sources of this high-strength discharge.
16*	Rothsay Rendering, Div. of Maple Leaf Mills Ltd.	Rothsay (Cambridge)	Rendering Plant Effluent	<ul style="list-style-type: none"> • Exceeded pH limit once. • The exceedence was minor and related to operational problems.
17	Shelburne WPCP	Shelburne (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded limits for biochemical oxygen demand loading and total suspended solids concentration in March. • Attributed to extremely cold weather conditions inhibiting the performance of the clarifier. • The municipality has retained a consultant to evaluate this problem and report on possible remedial action. • This report is due by the end of 1994.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Control Order and Certificate of Approval Limits

Non-Compliance With Control Order and Certificate of Approval Limits				West Central Region
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
18	Stelco (Hilton Works)	Hamilton (Hamilton)	Iron & Steel Plant Effluent	<ul style="list-style-type: none"> • Exceeded suspended solids limit in East Side Filter Plant effluent in February. • This isolated incident may have been due to analytical and sampling problems. • Effluent has been in compliance for the remainder of 1993.
19	Stelco Lake Erie Works	Nanticoke (Hamilton)	Iron & Steel Plant Effluent	<ul style="list-style-type: none"> • Exceeded monthly limit for total suspended solids in January. The exceedence was attributed to an analytical error for the January 25, 1993 sample. • Company was in compliance for the remainder of 1993.
20*	Waterloo WPCP	Waterloo (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded limits for total suspended solids monthly concentration twice, total phosphorus concentration five times. • Attributed to operational difficulties in treating weak strength raw sewage and subsequent scum and foam production in the activated sludge process. • The municipality is considering options to address this situation.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

West Central Region				
No.	Name of Plant	Location (MOE&E Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
1	Atlas Specialty Steel	Welland (Welland)	Iron & Steel Plant Effluent	<ul style="list-style-type: none"> • Exceeded monthly total suspended solids guideline twice. • Due to sample collection problems. • Company was in compliance for the remainder of 1993.
2*	Dontar Specialty Fine Papers	St. Catharines (Welland)	Pulp & Paper Plant Effluent	<ul style="list-style-type: none"> • Exceeded guideline for biochemical oxygen demand twelve times and total suspended solids once. • Due to abnormal sewer losses. • High strength biochemical oxygen demand effluent was diverted to the municipal sanitary sewer in November, 1993. • Company assessing secondary treatment technology options.
3*	Exolon-Esk	Thorold (Welland)	Inorganic Chemical Plant Effluent	<ul style="list-style-type: none"> • Exceeded guideline for total suspended solids twice. • Due to ineffective settling. • A Certificate of Approval has been issued for the installation of additional treatment to control suspended solids.
4*	Ford Motor Company	Niagara Falls (Welland)	Glass Plant Effluent	<ul style="list-style-type: none"> • Exceeded biochemical oxygen demand monthly guidelines three times. • Plant will close in 1994, and all direct discharges will cease.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.

WASTE WATER DISCHARGES REPORT/1993

Ministry of Environment and Energy

Non-Compliance With Policies and Guidelines

West Central Region				
No.	Name of Plant	Location (MOEE Office)	Type of Concern	Status Report Based on Information Received from Jan 1 - Dec 31, 1993
5	Galt WPCP	Galt (Cambridge)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded total phosphorus concentration guidelines four times. • Due to plant construction and the channelling of flows between the old and newer portions of the facility.
6*	General Motors of Canada Limited	St. Catharines (Welland)	Metal Casting Plant Effluent	<ul style="list-style-type: none"> • Exceeded phenol guidelines four times. • Plant closing in 1994 and all direct discharges will cease at that time.
7*	Norton	Niagara Falls (Welland)	Inorganic Chemical Plant Effluent	<ul style="list-style-type: none"> • Exceeded monthly guideline for total suspended solids five times during the reporting period. • Company is applying improved controls on lime slaking operations to control the suspended solids discharge.
8*	Port Dover WPCP	Port Dover (Hamilton)	Municipal Effluent	<ul style="list-style-type: none"> • Exceeded total phosphorus concentration guidelines twice. • Due to plant conversion from ferric chloride to alum treatment and commissioning of the upgraded plant.
9*	Rothsay (Orenco)	Dundas (Hamilton)	Rendering Plant Effluent	<ul style="list-style-type: none"> • Exceeded guidelines for ammonia four times, total suspended solids five times, phosphorus once, and biochemical oxygen demand once. • Company has committed to implement consultant recommendations to improve their treatment process in 1994.

* Indicates facilities which also appeared in the 1992 Non-Compliance Report.





